

Appl. No. 10/075,281 Handshuh
Amendment dated August 18, 2003
Reply to Office Action dated May 16, 2003

Amendments to the Claims:

The listing of claims will replace all prior versions and listings, of claims in the application.

Listing of Claims:

Claim 1 (cancelled):

Claim 2 (cancelled):

Claim 3 (cancelled):

Claim 4 (cancelled):

Claim 5 (cancelled):

Claim 6 (cancelled):

Claim 7 (cancelled):

Claim 8 (new): Apparatus for minimizing coking in bearings of a turbine, comprising:

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a lubricant reservoir containing a lubricant;

first and second lubricant supply lines extending from the lubricant reservoir and connected to each of the bearings;

turbine-driven
a main pump connected to the first lubricant supply line for supplying the lubricant through the first lubricant supply line to the bearings, when the turbine is operating;

electrical
an auxiliary pump connected to the second lubricant supply line for supplying the lubricant through the second lubricant supply line to the bearings; and

control means connected to the turbine and the auxiliary pump for turning on the auxiliary pump when the turbine is turned off and for supplying lubricant to the bearings.

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Claim 9 (new): The apparatus of claim 8, further comprising:

a lubricant return line connected to the lubricant reservoir and the bearings for returning the lubricant from the bearings to the lubricant reservoir.

Claim 10 (new): The apparatus of claim 9, further comprising:

temperature sensors connected to the lubricant return line and the control means for measuring the temperature of the lubricant in the lubricant return line, and the control means turning off the auxiliary pump when the temperature of the lubricant in the lubricant return line falls below a predetermined temperature.

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Claim 11 (new): ~~The apparatus of claim 8, wherein the first and second lubricant supply lines are separate and spaced from each other.~~

Claim 12 (new): The apparatus of claim 8, wherein the first and second lubricant supply lines are separate and distinct from each other.

Claim 13 (new): The apparatus of claim 8, wherein the first and second lubricant supply lines each include one way valve means for allowing the lubricant to flow only from the lubricant reservoir to the bearings.

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Claim 14 (new): Apparatus for minimizing coking in bearings of a turbine, comprising:

a lubricant reservoir containing a lubricant;

first and second lubricant supply conduits extending from the lubricant reservoir and connected to the turbine bearings, wherein the first and second conduits are separate from each other;

a main pump connected to the first lubricant supply conduit for supplying lubricant through the first lubricant supply conduit to the bearings, when the turbine is operating;

an auxiliary pump connected to the second lubricant supply conduit for supplying the lubricant through the second lubricant supply conduit to the bearings;

control means connected to the turbine and the auxiliary pump for turning on the auxiliary pump when the turbine is turned off and for supplying lubricant to the bearings;

a lubricant return conduit connected to the lubricant reservoir and the bearings for returning the lubricant from the bearings to the lubricant reservoir; and

temperature sensors connected to the lubricant return conduit for measuring the temperature of the lubricant in the lubricant return conduit, and the control means further connected to the temperature sensors and the auxiliary pump for turning off the auxiliary pump when the temperature of the lubricant in the lubricant return conduit is below a predetermined temperature.

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Claim 15 (new): Apparatus for minimizing coking in bearings of a turbine, comprising:

a lubricant reservoir containing a lubricant;

first and second lubricant supply lines extending from the lubricant reservoir and connected to each of the bearings, wherein the first and second lubricant supply lines are separate and distinct from each other and wherein the first and second lubricant supply lines each include one way valve means for allowing the lubricant to flow only from the lubricant reservoir to the bearings.;

turbine - a checked
a main pump connected to the first lubricant supply line for supplying the

lubricant through the first lubricant supply line to the bearings, when the turbine is operating;

electrical
an auxiliary pump connected to the second lubricant supply line for supplying the lubricant through the second lubricant supply line to the bearings;

control means connected to the turbine and the auxiliary pump for turning on the auxiliary pump when the turbine is turned off and for supplying lubricant to the bearings, and

a lubricant return line connected to the lubricant reservoir and the bearings for returning the lubricant from the bearings to the lubricant reservoir.